

ABSTRACT OF THE DISCLOSURE

In a plasma treatment method of and apparatus for treating the surface of a treatment target substrate by utilizing glow discharge produced by supplying

5 high-frequency power into an inside-evacuated reactor through a high-frequency power supply means, a plurality of impedance regulation means for regulating impedances on the side of the reactor and on the side of the high-frequency power supply means are provided

10 correspondingly to the impedances of a plurality of reactors, and the high-frequency power is supplied into the reactors via the impedance regulation means correspondingly to the reactors. Plasma treatment can be made in a good efficiency and a low cost on a plurality

15 of reactors having different impedances.

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